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BIEE-031

DIPLOMA IN ELECTRICAL ENGINEERING (DELVI) / ADVANCED LEVEL CERTIFICATE COURSE IN ELECTRICAL ENGINEERING (ACELVI)

Term-End Examination

December, 2015

BIEE-031 : 'C' - PROGRAMMING

Time : 2 hours   *Maximum Marks : 70*

Note : *Out of seven questions, **five** questions are to be answered. Question no. **1** is **compulsory**.*

1. Choose the correct answer.   7×2=14

 (a) Which of the following is a valid variable ?

 (i) average

 (ii) float

 (iii) for

 (iv) int

 (b) Which of the following is a bitwise operator ?

 (i) &&

 (ii) ||

 (iii) <<

 (iv) !

(c) Which of these is *not* an operating system ?

(i) DOS

(ii) LINUX

(iii) UNIX

(iv) JAVA

(d) Which one is a ternary operator ?

(i) Assignment

(ii) Relational

(iii) Conditional

(iv) Bit-wise

(e) %d is used for

(i) int

(ii) double

(iii) char

(iv) float

(f) Array is a collection of

(i) Same data elements

(ii) Heterogeneous data

(iii) Both (i) and (ii)

(iv) None of the above

(g) Which of the following *cannot* be a valid identifier ?

(i) sum

(ii) – sum

(iii) / sum

(iv) sum – 7

2. (a) Use goto statement to print the numbers from 1 to 10.   7

    (b) Write a program to count the number of records in a file.   7

3. (a) Write a 'C' program to find out the transpose of a matrix.   7

    (b) Write a 'C' program to check whether the number is prime or not.   7

4. (a) Write a 'C' program to calculate the addition of all elements of a vector.   7

    (b) What is the role of C-programming in Electrical Engineering ?   7

5. (a) What is primary key ? Explain the role of primary key in database.   7

    (b) Differentiate between break and continue statements with suitable examples.   7

6. (a) What is recursion ? Write a program to calculate the factorial of any number.   7

    (b) Write a program to find the transpose of a matrix of order 3×3.   7

7. Write short notes on any *four* of the following : $4 \times 3\frac{1}{2} = 14$

    (a) CAE

    (b) CAM

    (c) CAD

    (d) CAI

    (e) User-defined datatypes

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